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ALL LIVING THINGS OF THE EARTH ARE ONE

Air Pollution Control Permit

Emission Unit Description for Fuel Combustion Sources (Form EUDFC)

Instructions: Complete one copy of this form for each emissions unit best described as a fuel combusting unit. This form is designed to describe emissions units that combust solid or liquid fuels, such as boilers, steam generators, electric generating plants, stationary internal combustion engines, gas turbines, and other commercial and domestic fuel combustion unit.

A. General Information

Emissions Unit ID: ☐ Description: _____ SIC code (4-digit): _____

Location: _____

B. Emissions Unit Description

Primary Use: _____ Manufacturer: _____

Model: _____ Serial Number: _____

Installation Date: _____

For Boilers: _____

☐ **Industrial Boiler** ☐ **Process Burner** ☐ **Electric Utility Boiler**

☐ **Other (describe)**

For All Sources: **Actual (average) heat *input*** _____ **MMBtu/hr**

Maximum design heat *input* _____ **MMBtu/hr (estimate)**

Provide the following information on the Equipment Specifications, which ever applicable:

1. Maximum design capacity:
2. Fuel type (See Item D, below)
3. Fuel use (See Item E, below)
4. Production capacity
5. Production rates
6. Raw materials

Also provide any manufacturer's literature.

C. Operating Schedules

1 Total Hours/Day : _____

2 Total Hours/Week: _____

3 Total Hours/Month: _____

4 Total Hours/Year: _____

5 If operation is seasonal or irregular, describe. _____

6 Provide any other information on current operational limitations or work practices, or for sources that have not yet begun operation, such limitations or practices which the owner or operator plans to implement that affect emissions of any regulated or hazardous air pollutants of the emission unit.

D. Fuel Data

Instructions: Describe each fuel expected to be used during the term of the permit. State if the fuel is a primary fuel (used during a majority of operating hours), or a standby fuel.

Fuel Type (e.g. Diesel Fuel No. 2, Natural Gas, etc.)	Primary/Secondary	Max Sulfur (%)	Max Ash (%)	Heating Value (Btu/gal)

E. Fuel Usage Rates

Instructions: For each fuel described above, enter actual and maximum fuel usage rates on a worst-case hourly and annual basis. Indicate the units for the fuel usage rate (e.g. gallons, cords, cubic feet).

Fuel Type (e.g. Diesel Fuel No. 2, Natural Gas, etc.)	Annual Actual Usage	Maximum Usage (estimate)	
		Hourly	Annual

F. Applicable Requirements

Instructions: List the specific applicable requirement(s) that apply to this emissions unit. Do not list generic applicable requirements on this form. Include a citation to the requirement and a brief description of the standards, limitation and other requirements imposed by the applicable requirement.

Applicable Requirement	Citation	Text Description of Requirement	Compliance Determination	Exemptions
Visible Emissions	GAPCSR §1303 (a) and (b)	No person shall cause or permit the continuous emission of visible air pollutants of a density equal to or greater than twenty (20%) per cent opacity, except for pollutants of opacity greater than sixty (60%) per cent emitted not more than three (3) minutes in any sixty (60) minute period .	Periodic monitoring as required by permit conditions	N/A
Sulfur Oxides from Fuel Combustion	GAPCSR §1310 (a)	No person shall burn any fossil fuel containing in excess of 2% sulfur by weight.	Fuel Supplier Certificate of Analysis	Fuel Oil does not exceed 15 ppm sulfur content.
Federally Enforceable Permit Terms and Conditions	GAPCSR §1414	The federally-enforceable operating hours for the emergency equipment indicated in this form is 1500 hours per year.	Recordkeeping of Unit Operating Hours and/or Fuel Consumption	N/A

Furthermore, include the following:

1. Description of or reference to any applicable test methods for determining compliance with each applicable requirement.
2. Explanation of all proposed exemptions from any applicable requirements.

G. Air Pollution Control Equipment

Identify and describe in detail all air pollution control equipment.

Device type: _____ Manufacturer: _____

Model Number: _____ Serial No: _____ Installation Date: _____

Air pollutant(s) controlled: _____ Control efficiency (%): _____

Efficiency estimation method: _____

H. Ambient Impact Assessment Information

Instructions: This information must be completed when an

Stack height _____ Inside diameter Stack temperature

Design stack flow rate (ACFM)

Operating range of stack flow rate or velocity (ACFM or ft/sec) _____

I. Identification and Quantification of Emissions

List all air pollutants, regulated and hazardous, for which the unit will emit. Next, calculate potential to emit and actual emissions. Include all fugitive emissions when calculating actual emissions. At a minimum, round to the nearest ton for yearly values or pounds for hourly values. Provide calculations and assumptions that illustrate the methodology used. See instructions for more details on how to complete this form.

See Table 2 - Insert Emission Unit No. for assumptions and representative calculations.

Pollutant	CAS Number	Actual Annual Emissions Before Controls (tons/yr)	Actual Annual Emissions After Controls (tons/yr)	Potential to Emit (before controls)		Potential to Emit (after controls)	
				Hourly (lb/hr)	Annual (tons/yr)	Hourly (lb/hr)	Annual (tons/yr)
NO_X	N/A						
SO_2	N/A						
CO	N/A						
PM_{10}	N/A						
VOC	N/A						
Acetaldehyde	75070						
Acrolein	107028						
Benzene	71432						
1,3-Butadiene	106990						
Formaldehyde	50000						
Naphthalene	91203						
Toluene	108883						
Xylene	1330207						